## AMENDMENTS TO THE CLAIMS

- 1. (Currently amended) A method for amplifying a microRNA molecule to produce DNA molecules, the method comprising the steps of:
- (a) producing a first DNA molecule that is complementary to a target microRNA molecule using primer extension with an extension primer comprising a first portion selected to hybridize to a portion of the target microRNA molecule and a second portion that hybridizes to the complement of a universal forward primer; and
- (b) amplifying the first DNA molecule to produce amplified DNA molecules using [[a]] the universal forward primer and a reverse primer.
- 2. (Original) The method of Claim 1, wherein at least one of the universal forward primer and the reverse primer comprises at least one locked nucleic acid molecule.
- 3. (Original) A method of Claim 1 wherein the primer extension uses an extension primer having a length in the range of from 10 to 100 nucleotides.
- 4. (Original) A method of Claim 1 wherein the primer extension uses an extension primer having a length in the range of from 20 to 35 nucleotides.
  - 5. (Canceled)
- 6. (Currently amended) A method of Claim [[5]] 1 wherein the first portion of the extension primer has a length in the range of from 3 to 25 nucleotides.
  - 7. (Canceled)
- 8. (Currently amended) A method of Claim [[7]] 1 wherein the second portion of the extension primer has a length of from 18 to 25 nucleotides.

9. (Currently amended) A method of Claim [[7]] 1 wherein the second portion of the extension primer has a nucleic acid sequence comprising the nucleic acid sequence of SEQ ID NO:1.

10. (Original) A method of Claim 1 wherein the universal forward primer has a

length in the range of from 16 nucleotides to 100 nucleotides.

11. (Original) A method of Claim 1 wherein the universal forward primer consists of

the nucleic acid sequence set forth in SEQ ID NO:13.

12. (Currently amended) A method of Claim [[7]] 1 wherein the universal forward

primer hybridizes to the complement of the second portion of the extension primer.

13. (Original) A method of Claim 2 wherein the universal forward primer comprises

at least one locked nucleic acid molecule.

14. (Original) A method of Claim 13 wherein the universal forward primer comprises

from 1 to 25 locked nucleic acid molecules.

15. (Original) A method of Claim 1 wherein the reverse primer has a length in the

range of from 10 nucleotides to 100 nucleotides.

16. (Original) A method of Claim 2 wherein the reverse primer comprises at least

one locked nucleic acid molecule.

17. (Original) A method of Claim 16 wherein the reverse primer comprises from 1 to

25 locked nucleic acid molecules.

18. (Original) A method of Claim 1 wherein the reverse primer is selected to

specifically hybridize to a DNA molecule complementary to a selected microRNA molecule

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under defined hybridization conditions.

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- 19. (Original) A method of Claim 1 further comprising the step of measuring the amount of amplified DNA molecules.
- 20. (Original) A method of Claim 1 wherein amplification is achieved by multiple successive PCR reactions.
- 21. (Currently amended) A method for measuring the amount of a target microRNA in a sample from a living organism, the method comprising the step of measuring the amount of a target microRNA molecule in a multiplicity of different cell types within a living organism, wherein the amount of the target microRNA molecule is measured by a method comprising the steps of:
- (1) producing a first DNA molecule complementary to the target microRNA molecule in the sample using primer extension with an extension primer comprising a first portion selected to hybridize to a portion of the target microRNA molecule and a second portion that hybridizes to the complement of a universal forward primer;
- (2) amplifying the first DNA molecule to produce amplified DNA molecules using [[a]] the universal forward and a reverse primer; and
  - (3) measuring the amount of the amplified DNA molecules.
- 22. (Original) The method of Claim 21, wherein at least one of the universal forward primer and the reverse primer comprises at least one locked nucleic acid molecule.
- 23. (Original) The method of Claim 21, wherein the amount of the amplified DNA molecules are measured using fluorescence-based quantitative PCR.
- 24. (Original) The method of Claim 21, wherein the amount of the amplified DNA molecules are measured using SYBR green dye.

25-42. (Canceled)